



Shop Order

Carrier Truck Center Inc.
645 Athlone Place
Woodstock, ON N4S 7V8

The Municipality of Dysart et al
PO Box 389
135 Maple Ave
Haliburton, ON K0M 1S0

Exp. Date: 08/24/2018
Quote No: Dysart et al, ON-0021
Job/Order No: 20468
BODY: 00-10-15 Metalfab Pumper - ULC 05/13

10/18/2019

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PART NO	S	DESCRIPTION	QTY	ID
		== Metalfab Pumper - ULC 05/13 - 0.000 ==	1	MTL
	S	CHANGE ORDER F	1	MTL
00-10-1500		Metalfab Pumper E	1	MTL
00-20-1000		Company Profile E	1	MTL
00-20-1500		Standard Body Warranty	1	MTL
00-20-1550		Metalfab Limited Ten (10) Year Paint and Corrosion Warranty	1	MTL
00-20-1600		Waterous Pump Warranty - 5 years	1	MTL
00-20-1800	S	Polypropylene Tank Lifetime Warranty	1	MTL
00-20-2000		Plant Visits - unlimited at customer expense	1	MTL
00-20-3000	S	No Bonding Requested	1	MTL
00-20-3500		Certification for Fusion Welding of Aluminum	1	MTL
00-20-4000	S	Quality System registered to ISO 9001:2015	1	MTL
00-20-4500		Fire Apparatus Manufacturers' Association Membership	1	MTL
		GENERAL INFORMATION	1	MTL
10-11-0000		Intent E	1	MTL
10-11-0110		Vehicle data recorder included with chassis	1	MTL
10-11-1101	S	ULC S515-13 and NFPA 1901-2016 Compliance E	1	MTL
10-11-1500		> ULC Testing - Pumper	1	MTL
		ENG. NOTE: Note in the shop note if the Fire Department wishes to witness the test		
10-11-2100	S	Maximum length - 28' 00" (336")	1	MTL
10-11-2200	S	Maximum height - 9' 06" (114")	1	MTL
10-11-2300		Overall length is less than 30'	1	MTL
10-11-2500		General Construction	1	MTL
10-11-3000	S	Manuals - two copies ***Two copies of chassis manuals are required. ***Two (2) complete, CLEAR LAMINATED circuit diagrams shall be provided with the apparatus.	1	MTL
10-11-3600	S	> Delivery - FOB Fire Department - by CCEV ENG. NOTE: Note in the shop note if more than 4 hours of training is required	1	MTL
10-11-4300	S	Payment Terms - Chassis and Body NET 30	1	MTL
10-20-1400	S	> Hose capacity exceeding ULC/NFPA requirements ENG. NOTE: Specify the type of hose and quantity of hose to be carried on the vehicle The main hose bed shall be located over the water tank and be as large as possible to maximize hose carrying capacity. The main hose bed shall accommodate 600' of 4" hose and 300' of 2 1/2" hose. ***Additional weight of 300 pounds***	1	MTL
10-20-2000		Equipment carrying capacity - standard ULC Pumper This vehicle is designed to carry the standard ULC miscellaneous equipment load of 2000 pounds for a vehicle with less than 250 cubic feet of compartment space.	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
CHASSIS INFORMATION				
20-11-1000	S	<p><i>Chassis supplied by Metalfab - International HV607</i></p> <p>46,000 lb GVW 16,000 lb front axle 30,000 lb rear axle 211" wheelbase 144" cab to axle Cummins L9 370 hp @ 2000 rpm 2100 no load rpm 1250 lb-ft torque @ 1400 rpm Allison 3000 EVS automatic transmission, 325 Amp alternator LH side PTO opening (top opening not required) 189 litre fuel tank, left side under cab Colour is 2303 red to match existing chassis with serial # 1HTWCAZR0BJ391725 Steel wheels painted red Power windows with power door locks disabled by Richwil Note: Will need harness' to relocate switch packs from dash to console - Need the "New" type switch pack blanks for the MV Series chassis. Order Safety Kit with the chassis (Fire Extinguisher, First Aid kit and Safety Triangles)</p>	1 1	MTL MTL
20-11-1500		2013 Emission chassis modifications	1	MTL
20-11-1700	S	<i>Chassis Motor Vehicle Inspection required - by CCEV</i>	1	MTL
20-21-0500		<i>Fluid capacity plate</i>	1	MTL
20-21-0600		<i>Pumping test plate</i>	1	MTL
20-21-1000		<i>Maximum riders sign - 2 persons</i>	1	MTL
20-21-1500		<i>Seat belt warning labels - 2 door chassis</i>	1	MTL
20-21-1520		<i>Helmet warning label - do not wear helmet</i>	1	MTL
20-21-1560	U	<p><i>LED Tire pressure indicators</i></p> <p>All indicators shall be directed so as to be visible from the open side of the tire. See SOPT #19 in file - truck specific. Will need RW1266-2 180 degree extension for rear wheels.</p>	1	
20-21-1600		<p><i>Apparatus Information Label</i></p> <p>An information label is provided in the chassis cab, visible to the driver, stating: "When manufactured, this vehicle was: ** m high ** m long ** kg GVW Changes in height since the apparatus was manufactured shall be noted on this plate by the Fire Department"</p>	1	MTL
20-21-2000		Non removable key	1	MTL
20-21-2500		Shifter lock not required E	1	MTL
20-21-3500		Rear step warning label	1	MTL
20-21-3810		<i>Front mudflaps provided with chassis E</i>	1	MTL
20-21-4000		Rear mudflaps - Metalfab Logo	1	MTL
20-31-0200		Fuel fill label -Ultra Low Sulfur Diesel only	1	MTL
20-31-0500		<p><i>Alum tread fuel tank trim, Conv - 2 door</i></p> <p>Vertical trim only, OEM cab steps remain</p>	1	MTL
20-31-1900	S	<p><i>Chassis cab painted single color by chassis OEM</i></p> <p>Color is 2303 red to match existing chassis with serial # 1HTWCAZR0BJ391725</p>	1	MTL
20-31-7500	S	<p><i>Console in cab</i></p> <p>Install pump shift (30-51-0400) in console. Console will have designated area for 2-way radio installatio and siren controls (50-11-14AA). The panel shall be bolted in place for easy access to the switch connections. Console will include a storage area for placement of procedure binder, two portable radios and vehicle manuals. Gray Zolatone finish. A single cutout for the Carrier supplied Motorola XPR radio DIN mount that arrived 03.07.2019 is required, the Customer will install a 2nd radio module inside the console and does not require a cutout. The layout of the console will require customer approval. The emrgency light panel will stay on the International Chassis dash as per e-mail approval received 06.24.2019 from Rod Harris.</p>	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
20-41-0600	S	Intake air shutoff for engine not requested	1	MTL
20-41-0900		Auxiliary braking system disabled when pumping	1	MTL
20-41-1100		Transmission programming - Allison WT ***Includes "Pump Engaged" light next to pump shift on chassis instrument panel.	1	MTL
20-41-1500		Extend exhaust pipe - RS front of rear wheels E Engineering to specify exhaust pipe material as required by the chassis manufacturer. Engineering to sign off on the exhaust configuration to make sure it meets the chassis manufacturer's emission specifications.	1	MTL
20-41-1801		Battery boost terminals not required - batteries accessible	1	MTL
20-41-2000		Chassis batteries remain in OEM location	1	MTL
20-41-2510		Fuel fill at step fuel tank under cab	1	MTL
20-41-2600		Chassis fuel tank remains in OEM location	1	MTL
20-41-5010		Rear Tow Hooks - through rear of body E *** Flat bar tow hooks under rear step (2)	1	MTL
20-51-0700		Master Battery Disconnect included with chassis	1	MTL
20-51-2500		Back up alarm included with chassis	1	MTL
20-51-3100	S	Air inlet not requested On board compressor provided	1	MTL
20-51-3400		Protection valve installed for air operated accessories	1	MTL
20-51-6200	S	> 120 volt 20 A shore line connection ENG. NOTE: Requires 20-51-75 120 volt auto eject or 20-51-80 120 volt inlet One for battery conditioner in cab One in rear left side compartment - for power bar (20-99-05AA) in the top corner	2	MTL
20-51-6502	U	Kussmaul Pump Plus 1200 - auto drain for compressor Battery conditioner is mounted in cab on the back of the console or rear wall. The air compressor is mounted over the pump operator's panel in L1 if space permits. See 70-21-5500 for location of the display. Note: Auto drain is provided with the Kusmaul compressor See SOPT #547 in file - truck specific	1	
20-51-7101	S	Electric System Management through Diamond Logic	1	MTL
20-51-7500	S	Super Auto eject for 120 v - 20 A with sealed enclosure Locate in left cab step area	1	MTL
20-51-8500	S	Engine compartment lighting - LED One LED light to light up complete engine compartment. Switched with park brake.	1	MTL
20-51-9110		Air horns on hood, chassis OEM switch controlled E P/N 1580701 Hadley 24.5" chrome air horns	1	MTL
20-52-3000		> Chassis steering wheel lined up by others ENG. NOTE: Required for all chassis except Freightliner, Sterling, Spartan	1	MTL
20-60-0400		Chassis wheelbase does not change	1	MTL
20-90-1810	U	Extend air tank moisture ejectors to rubrail and tag SOPT #507	1	
20-99-05AA	U	Power bar for transformer type plugs - 120 volt in L4 compartment Power bar is mounted in the top corner of the L4 compartment suitable for charging batteries on small tools and radios. Power bar (P/N 1130302) will plug into shoreline receptacle 20-51-6200. SOPT #1072	1	
20-99-15AA	U	Provix Heated B/U camera w/ 7" screen The rear b/u camera will be by Provix, heated and will have a 7" screen.	1	

PART NO	S	DESCRIPTION	QTY	ID
PUMP AND PLUMBING				
30-11-3002		Waterous CXVPA 1250 PTO driven pump - 1050 IGPM Pump is mounted between frame rails	1	MTL
30-15-0304		Plumbing - non manifold pump SM SS E	1	MTL
30-20-0500		Valves and controls - side mount panel	1	MTL
30-20-1002		Akron valves specified	1	MTL
30-20-1620	S	Piping stainless steel - non manifold pumps	1	MTL
30-20-1700	S	1-1/2" thread specifications - NPSH	1	MTL
30-20-1800	S	2-1/2" thread specifications - CSA	1	MTL
30-20-2000		Piping hydrostatic test	1	MTL
30-20-2510	S	Anodes in suction and discharge piping - non manifold pump Install one anode on discharge side of pump, one anode on suction side of pump - do not use teflon tape or thread sealant. Paint flange silver and mask brass anode before painting for visibility.	1	MTL
30-21-5520		Tank to Pump SS 3" w/ check valve non manifold pump	1	MTL
30-22-0520		Tank Fill valve 2" SS	1	MTL
30-31-4020	S <	Suction - 6" each side SS non manifold pump 6" header Suction to be between 36-40" from the ground.	1	MTL
30-31-7110	S >	Waterous master intake suction valve - handwheel control - Left side inlet ENG. NOTE: Not available for top mount panels Note location in Shop Note Suction to be gated is the left side 6" inlet	1	MTL
30-32-05AA	U	Left side Suction, 4" gated Storz suction, SS, bleeder, handwheel control, Akron SOPT #733 in file - truck specific (ref only) When plumbing include SSRV 30-51-7002.	1	
30-32-05BB	U	Right side Suction, 4" gated Storz suction, SS, bleeder, handwheel control Akron SOPT #733 in file - truck specific (ref only) When plumbing include SSRV 30-51-7002.	1	
30-40-3015	S	4" right discharge SS, plumbed 4", handwheel, Waterous non manifold pump	1	MTL
30-41-2040		2-1/2" RS discharge SS, bleeder, non manifold pump	1	MTL
30-41-2540		2-1/2" LS discharge SS, bleeder, non manifold pump One discharge to be foam compatible - ref 30-52-5510	2	MTL
30-44-0720	<	1-1/2" speedlay (each) front of pumphouse SS, plumbed 2" Swivel to be outboard, one each side. Capacity for 250' of 1-3/4" hose with nozzle attached. Stainless steel rollers on each end for easier hose removal. Bleeder valve provided on pump panel.	2	MTL
30-44-6520	S	Piping for monitor SS, plumbed 3", bleeder Piping to terminate rear center of open storage over speedlays - install direct flange mount 80-99-10AA. The pipe needs to sit about 3" above the body to allow the monitor to swivel. See pictures in O:/Metalfabphotos/Dysart ON M19-20468	1	MTL
30-51-0400	S	Pump shift - PTO Pump and Roll ***Includes "Pump Engaged" indicator lights on chassis instrument panel and on the pump panel ***Includes "Throttle Ready" indicator light on Pump operating panel Includes indicator light showing "OK TO PUMP" when transmission is in neutral, park brake is set, and PTO control energized. The remote electronic throttle will be energized in this mode. Includes indicator light showing "OK TO PUMP AND ROLL" when the transmission is not in neutral, the park brake is not set, and the PTO control is energized. The remote electronic throttle will not be energized in this mode. ***Requires a guarded DLB switch (Diamond Logic)***	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
30-51-1500		Power shift PTO - Automatic transmission	1	MTL
30-51-1501		> PTO driveshaft E	1	MTL
		ENG. NOTE: Quantity of 2 for pumps mounted on 4 door cabs due to length		
30-51-6700		FRC Pump Boss Governor/Throttle engine display	1	MTL
30-51-7000	S	Suction side relief V/V, for the Waterous MIV - Left side 6" suction	1	MTL
30-51-7002	S	Suction side relief V/V, non manifold pump	3	MTL
		The three SSRV's are located for each 4" inlet and the 6" right side non gated inlet.		
30-51-7715	S	Trident Automatic Air Primer 3 barrel 2 location	1	MTL
		Location #1 - plumbed to pump		
		Location #2 - plumbed to 6" gated intake for pre-prime		
30-51-7720		Additional air tank for air primer system	1	MTL
		An additional air tank is provided and installed by Metalfab to improve air primer capacity.		
30-51-8100		Heat exchanger included with chassis	1	MTL
30-51-90AA	U	Waterous Thermal Relief Valve (OPM) Overheat Protection Manager P/N 1542007	1	
		Locate on pump operators panel SOPT #844		
30-52-1000		Master drain V/V, 12 port	1	MTL
30-52-2000		Drain valve for foam system header	1	MTL
30-52-3500	S	Panel mount foam Pickup tube and valve Akron	1	MTL
		A fitting and valve is installed on the pump panel to allow use of foam from an external foam tank or pail rather than the truck mounted foam tank. ***A dual tank selector valve is plumbed to the Akron foam pickup. Locate on left side pump operators panel. Pick up tube will be vertically mounted on the front wall of L1 ahead of operator's controls.		
30-52-5510		Foam system-Hypro FoamPro 2001 Single Tank	1	MTL
		Foam system is plumbed to both Crosslays and a left side 2.5" discharge - rear most unless otherwise specified.		
30-52-9100		Foam concentrate label at foam tank fill	1	MTL
30-52-9200		Foam System Instruction Plates	1	MTL
30-52-9400		NFPA Foam System certification test	1	MTL
30-52-99AA	U	Price Adjustment	1	
		WATER AND FOAM TANKS		
40-11-2100	S	Polypropylene water tank (Imperial gallons)	1	MTL
		Minimum 6" overflow/vent Fill tower to be 14" square		
40-11-2200		Water tank capacity certification (tank manufacturer)	1	MTL
40-11-6000	S	Tank capacity 1300 Imperial Gallons	1	MTL
40-12-4500	S	Foam cell - 10 Imperial gallon	1	MTL
40-13-0100		> Through the tank tunnel - up to 20 cu ft	1	MTL
		ENG. NOTE: Charge 60 per cubic foot of tunnel volume		
		For ladder storage - ref 60-40-9000		
40-21-1000		4" tank to pump connection	1	MTL
40-22-0500		2" tank fill connection	1	MTL
40-23-0500		1" water level gauge connection	1	MTL
40-23-1000		1" foam level gauge connection	1	MTL
40-23-1050		4" Fireman's Friend connection	1	MTL
40-23-1060		10" Newton dump connection	1	MTL
40-30-0400		3" plug in sump box	1	MTL
40-30-1000		Water Fill Box front left corner	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
40-31-4500		10" rear Newton dump, painted steel	1	MTL
40-31-5000		Newton dump - 36" telechute painted steel	1	MTL
40-31-5510		Electric operator for Newton dump, side mount Switch is located left side over the rear flasher	1	MTL
40-31-5600		> Rotating dump chute for Newton dump painted steel ENG. NOTE: Requires top mount control on dump valve	1	MTL
40-31-5800		Support for rotating dump chute if necessary Engineering to determine if this support is required	1	MTL
40-31-9000		4" Storz rear fill, Fireman's Friend Located right of dump as shown on the proposal drawing.	1	MTL
ELECTRICAL			1	MTL
50-11-0450		Base electrical system - International Diamond Logic multiplex	1	MTL
50-11-0600		Warning Light Certification	1	MTL
50-11-0700		Low Voltage Electrical system test	1	MTL
50-11-0800		Low Voltage Electrical System Documents As required by ULC and NFPA standards	1	MTL
50-11-0900	S	Rocker switch panel with master warning switch ***Rocker switch assignments: MASTER -LIGHT BAR -REAR BEACONS -FLASHING WARNING -LEFT SIDE SCENE -RIGHT SIDE SCENE -REAR SCENE The International chassis switches in the dash will be used as approved by Rod Harris by e-mail on 06.24.2019	1	MTL
50-11-14AA	U	Whelen Siren - 295SLSA1 Located in cab console 20-31-7500 P/N 1570957 SOPT #16	1	
50-11-16AA	U <	Whelen Siren speaker - SA315P - 100 Watt behind front bumper/grille The color of the speaker is black in color and department request to have the speaker in the front bumper opening if allowed by International SOPT #16	1	
50-11-2600		Siren to be accessible to driver and officer	1	MTL
50-11-61AA	U	Whelen Legacy 54" lightbar - LED and NFPA compliant - red/blue Model GB2RBRB SOPT #269a in file - truck specific	1	
50-11-6501	S	Rear Directional Light not requested	1	MTL
50-11-8340	U	Whelen LED rear beacons, L31HRF (red), L31HBF (blue) SOPT #9 - truck specific Red beacon P/N 1570618 Blue beacon P/N - TBD The department specified the left side is red and the right side is blue Confirmed by e-mail 06.03.2019 by Rod Harris	1	
50-12-83AA	U	LED lighting for Zico access ladder on rear of body Amdor LED Lumabars SOPT #307b	1	
50-12-85AA	U	Front and front side LED flashers (pr) Whelen M6 two red, two blue Red M6 flasher P/N 1031585 Blue M6 flasher P/N - TBD SOPT #952a - truck specific The department specified the location of red light will be on the right and the blue	1	

PART NO	S	DESCRIPTION	QTY	ID
		lights will be on the left. Confirmed by e-mail on 06.03.2019 by Rod Harris.		
50-12-86AA	U	Rear LED flashers (pr) Whelen M6 one red, one blue SOPT #951a The department specified the location of red light to be on the right and the blue lights to be on the left. Confirmed by e-mail on 06.03.2019 by Rod Harris.	1	
50-12-88AA	U	Body side LED flasher (pr) Whelen M6 both red SOPT #953a - truck specific Both lights to be Red	1	
50-21-25AA	U <	Whelen PCP3P1 - 12-volt, 20,000 Lumens extenda light SOPT #722 Light is switched on light head Push up pole 86930WB4 with steady rest and sensor - wire sensor to equipment not stowed warning light 50-11-5550.	2	
50-21-5100	>	Compartment lighting - LED tube lights in each compartment (rollup doors) ENG. NOTE: Rollup doors only	1	MTL
50-21-5500	S	Door Ajar warning light Wired through Diamond Logic Bilingual warning label in cab to read: "Do Not Move Apparatus when Light is on"	1	MTL
50-21-5550	S	Equipment rack not stowed warning light For the Zico PTS system and the push up telescopic lights. Wired through Diamond Logic. Bilingual warning label in cab to read: "Do Not Move Apparatus when Light is on"	1	MTL
50-21-8001	S	Step lights for body steps - LED Switched when park brake is set.	1	MTL
50-21-8200	S	Step lights for chassis steps - LED Switched when park brake is set.	1	MTL
50-21-8600		LED clearance lts and reflectors	1	MTL
50-21-8605	U	Cast Products license plate holder with LED light SOPT #18 P/N 1562640	1	
50-22-0710	U	Whelen C6 LED tail/brake-turn-backup module (pr)	1	
50-31-60AA	U	Whelen M9 LED Scene lights (pr) - M9LZC There shall be Whelen M9 LED scene lights installed on each side (directly to the body surface without scene light boxes) - two each side in upper corners The rear scene lights will be installed on the left side of the body (left of the Zico Access ladder 60-31-5000) and on the right side under the hose bed Three switches in cab labeled Left scene light, Right scene light and Rear scene light. The rear shall also be wired to come on when the chassis is placed in reverse. SOPT #571	3	
50-31-6550		Ground lighting (LED Lumabar) - 2 door chassis Switched when park brake is set.	1	MTL
50-31-6570		Ground lighting (LED Lumabar) - side mount body Switched when park brake is set.	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
50-31-65AA	U	Hose bed lighting - LED on front partition Switched when park brake is set. SOPT #958	1	
50-35-0500	S	Provisions (wiring) for Customer's supplied and installed radio(in console area) There will be two (2) power cables for 2-Way radio wiring supplied by Carrier with 20-amp fuse protection. Wiring will terminate at centre console. The first set was delivered 03.07.2019 and the second will be delivered 03.19.2019. They will both be wired to the battery Master switch.	1	MTL
50-35-0560	S	VHF antenna with base - commercial chassis Metalfab will install the Carrier supplied Antennas behind the light bar and run the cable to the centre console 20-31-7500. The first antenna arrived 03.07.2019 and the second antenna will be delivered 20.19.2019.	2	MTL
50-35-0590	U	Price Adjustment	1	
		BODY	1	MTL
60-10-1400		Single axle extruded aluminum body	1	MTL
60-10-1488	U	Compartment vents to include removable and replaceable particulate filters (ea) SOPT #905	6	
60-10-15AA	U	1" drop on lower edge of compartment floor - sweep out type SOPT #1236	1	
60-10-4100		No "beavertail" rear step supports	1	MTL
60-10-4600		Painted fender surround E	1	MTL
60-10-4770	S	Removable stainless steel fender trim - single axle There will be removable stainless steel fenderettes to cover the rear 315 tires.	1	MTL
60-10-5400		> Diamondback pumphouse steps ENG. NOTE: Maximum height of step is 24" from ground	1	MTL
60-10-5430		> Diamondback 19" rear step ENG. NOTE: Maximum height of rear step is 24" from ground	1	MTL
60-10-6500		Bolt on extruded aluminum rub rail E Install white reflective in rubrails.	1	MTL
60-11-0300		> Front left side compartments full height E ENG. NOTE: Specify critical dimensions in shop note	1	MTL
60-11-0350		> Second front left side compartments full height E ENG. NOTE: Specify critical dimensions in shop note	1	MTL
60-11-0500		> Front right side compartment to top of wheel well ENG. NOTE: Specify critical dimensions in shop note	1	MTL
60-11-0550		> Second front right side compartment to top of wheel well ENG. NOTE: Specify critical dimensions in shop note	1	MTL
60-11-1000		> Rear left side compartments full height E ENG. NOTE: Specify critical dimensions in shop note	1	MTL
60-11-1100		> Rear right side compartment to top of wheel well ENG. NOTE: Specify critical dimensions in shop note	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
60-11-2000		> High side compartment (over 18") each ENG. NOTE: Specify critical dimensions in shop note Specify type of door Specify flip up or drop down Specify which side of body	1	MTL
60-11-3100		No rear compartment E	1	MTL
60-11-5500		Rollup door - standard height Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point	4	MTL
60-11-5520		Rollup door - full height Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point	3	MTL
60-11-5655	U <	Amdor pull strap - L3 compartment Include with door order Metalfab part number 1003066 Amdor part number AY-9355-18 For door opening height of 20" to 37" Installed on the following doors Left side over rear wheels SOPT #1114	1	
60-11-5660	U <	Amdor pull strap - L1, L2 and L4 compartments Include with door order Metalfab part number 1003068 Amdor part number AY-9355-36 For door opening height of 49" to 70" Installed on the following doors Left side front compartment door Left side second front compartment door Left side rear compartment door SOPT #1114	3	
60-31-4100		Extruded aluminum handrails Minimum 2" clearance from handrail to any surface	1	MTL
60-31-5000		Zico access Ladder at rear of unit Minimum 7" clearance between rung and any obstruction Located on rear, left side	1	MTL
60-31-5600	S	Steps and grab handles at front of body as required For HEAT style front ends	1	MTL
60-31-5800	S	Special step at rear of body Standard bolted on step above the ladder rube, as wide as possible. Stepping surface will be aluminum ventilated diamond back material	1	MTL
60-31-6500	S	Compartment matting - black plastic interlocking tile	1	MTL
60-31-8003	U	Double SCBA bottle holder in rear fender (ea) Door ajar switch required Restraining strap required SOPT 1023	4	
60-31-8200	S	> Sliding vertical tool board - open/close latch ENG. NOTE: Specify location There will be a vertical toolboard installed in the L4 compartment in the full depth section only. It will be centered in the compartment.	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
60-31-83AA	U	PAC tool board in L2 compartment There will be a PAC tool board installed in the upper portion of the L2 compartment. It will be the full width of the compartment and start 6" above the fixed shelf 60-31-9600 and extend to the top of the compartment.	1	
60-31-8800		> Sliding tray (ea) - 600 pound capacity ENG. NOTE: Specify location Location: L2 compartment at floor level ***Hardware requires 3-1/2" of compartment height Reflective stripe is applied on the exposed edge for visibility when the compartment door is open	1	MTL
60-31-9600	S	> Adjustable shelf (ea) ENG. NOTE: Specify location Shelf #1 - L2 compartment and full depth Shelf #2 - R1 compartment and full depth Shelf #3 - R2 compartment and full depth Shelf #4 - Fixed at depth change of L2 compartment Shelf #5 - Fixed at depth change of L4 compartment Reflective stripe is applied on the exposed edge for visibility when the compartment door is open	5	MTL
60-32-3550		Two adjustable hose divider (each) Hand hold required in end	1	MTL
60-32-7500		Hose bed - aluminum	1	MTL
60-33-0000		Paint exterior - Imron Elite *** Paint code and colour red to match cab	1	MTL
60-33-0200		Undercoat vehicle with KROWN rust protection	1	MTL
60-33-0600	S	Chassis wheels not painted - leave red as supplied by chassis OEM Studs, nuts and hubs will remain black as supplied by chassis OEM.	1	MTL
60-33-1000		Paint pump and plumbing job colour	1	MTL
60-33-1500		Buffed finish compartment interior	1	MTL
60-33-2200		Lettering - 80 letters up to 3" tall - 3 colour *** Vinyl letters, Fire Department to provide details on location and text.	1	MTL
60-33-3200	S	Reflective stripe - 1" - 4" white 50% of perimeter each side and 25% of perimeter front. The stripe will be 1" on the upper and 4" at the lower position.	1	MTL
60-33-3310		Reflective stripe - red and yellow chevron at rear Minimum 50% of rear vertical surface.	1	MTL
60-33-3500		Tarp over hose bed - black A hosebed cover will be provided and secured to top body flanges by quarter turn snaps at front of hosebed and Velcro on each side edge of the cover. A bolt on bar will be furnished at the front of the cover to securely attach tarp to, and Velcro straps will be provided on the rear of the cover to tie around footman loops. Color to be black.	1	MTL
60-33-3600		Reflective stripe - inside entry doors 96 square inches minimum inside each cab entry door	1	MTL
60-33-4000	S	End tarps for speedlays - black End tarps shall be installed for Speedlays. Color to be black. Velcro straps shall be installed to tie around footman loops.	1	MTL
60-40-5500		Suction hose tube (each) with door Tubes with rear access under tee of tank to house the 6" x 10' suction hoses 80-11-5000.	2	MTL

PART NO	S	DESCRIPTION	QTY	ID
		Door ajar switch required.		
60-40-9000		> Tube mount for ladders, with rear door ENG. NOTE: Specify location, ladders to be installed in this tube, complete dimensions of ladders if user supplied Tube through the tank with rear access door to house the 24 two section ladder 80-14-0505, 14' roof ladder 80-14-5510 and 10' attic ladder 80-14-8510. the tubes for the ladders will be separated so they can be removed individually. Door ajar switch required.	1	MTL
60-41-1015		Pike Pole tube in suction hose tube To house the two 80-13-2500 pike poles.	2	MTL
60-41-6001		> Zico hydraulic portable tank rack ENG. NOTE: Specify mounting location desired. If Portable tank is customer supplied, specify overall dimensions when the tank is in stored position Located on right side for the 80-15-1000 portable tank To be wired so only operable when park brake is engaged. Flashing lights and reflective tape required at front and rear to indicate any areas that protrude beyond the body.	1	MTL
60-41-6010		ZICO PTS switched at rear above tail light Switch is located on same side as electric rack - right side.	1	MTL
60-41-6110		Painted plate on exterior of Zico PTS	1	MTL
60-41-7100		Tread plate on body behind porta tank rack	1	MTL
		INSTRUMENTATION	1	MTL
70-11-0000		Warning Label on Pump Operator's Panel	1	MTL
70-11-0500		Side mount instrument panel No gauge or visual display can be higher than 84" above the operator's standing position Midpoint of any control cannot be higher than 72" above the operator's standing position	1	MTL
70-11-0600	U	Linkage controls in left front side compartment - HEAT Style SOPT #847 ***Note - Thuemling gauges and controls	1	
70-11-1500		Stainless steel instrument panels No gauge or visual display can be higher than 84" above the operator's standing position Midpoint of any control cannot be higher than 72" above the operator's standing position	1	MTL
70-11-3200		Colour coded tags Tank Manufacturer's capacity tag/label to be on pump operators panel in full view of operator.	1	MTL
70-11-4000		Stainless steel side panel hood right side	1	MTL
70-11-4100		Stainless steel side panel hood left side	1	MTL
70-11-5100	S	Open storage of pump house Lighting required to meet ULC - switched when park brake is set.	1	MTL
70-11-5200	U	End doors on the dunnage area 70-11-5100 There will be end doors installed on the dunnage area 70-11-5100 - one at each end of the storage.	1	
70-11-5500	S	Right side pump access No opening dimension less than 18"	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
70-11-7500		Heat pan-aluminum	1	MTL
70-11-8000		Heater in pump compartment Switch located on pump operators panel.	1	MTL
70-20-0500	S	4-1/2" compound gauge - dual face 0-400 To be within 8" of each other - edge to edge Range to be 0-400 PSI	2	MTL
70-20-1500	S	2-1/2" pressure gauge - dual face 0-400 ***Note - Thuemling gauges and controls Gauge to be no more than 6" from edge of the gauge to the center of the control. Range to be 0-400 PSI	7	MTL
70-20-2500		Primer control	1	MTL
70-20-2501		Additional Primer control	1	MTL
70-20-3200		FRC Pump Boss Governor Control Throttle can be no lower than 42" and no higher than 72" from operator's standing position.	1	MTL
70-20-3500		Electric water level gauge on pump panel, Class One	1	MTL
70-20-6500		Test gauge panel Mount below the compound gauges for proper draining	1	MTL
70-20-7500		Heat exchanger control valve	1	MTL
70-21-1500	S	Electric Foam Level gauge on pump panel, Class One Include access to and room for sender in front of body and back of pump house	1	MTL
70-21-2100		> PTO Hourmeter ENG. NOTE: Specify location in shop note Locate in cab console 20-31-7500	1	MTL
70-21-5500	S	Readout for Battery Conditioner Charger Indicator shall be located on the interior of the cab and viewable from the exterior while standing at ground level, with the driver's door open.	1	MTL
71-21-4500	S	Speaker on pump panel One external speaker for the 2-way radio will be installed in the pump panel, wiring for the speaker will have an on/off switch on the centre console. The switch will have 12" wire lead left to be used by the fire department radio installer. Speaker wiring will terminate in the centre console.	1	MTL
ACCESSORIES			1	MTL
80-11-5000		6" x 10' lightweight suction hose (ea) Tube mounted	2	MTL
80-12-2500		6" barrel strainer Shipped loose - not mounted. Customer will mount.	1	MTL
80-13-0500		Rubber mallet Shipped loose - not mounted. Customer will mount.	1	MTL
80-13-1200		Clare hose wrenches (double) with holder Mounted where room permits - one on left side pump panel, one on right side pump panel	2	MTL
80-13-2500		Pike pole, fibreglass handle - 10' long Tube mounted	2	MTL
80-13-4000	S	Axe, pick head, fibreglass handle and bracket Customer requested to have the axes shipped loose. As requested by e-mail on 06.03.2019 by Rod Harris.	1	MTL
80-14-0505	U	Duo Safety 24' two section extension ladder Stored in tank tunnel.	1	

PART NO	S	DESCRIPTION	QTY	ID
80-14-5510	U	Duo Safety 14' roof ladder Stored in tank tunnel.	1	
80-14-8510	U	Duo Safety 10' folding attic ladder Stored in tank tunnel.	1	
80-15-1000	S <	2000 l gallon portable tank - Husky Stored on PTS rack. ****Bladder color to be Yellow****	1	MTL
80-17-0500	S	10# dry chemical fire extinguisher and mount Customer specified mounting location to be on the tool board in the L4 compartment. Confirmed by e-mail on 06.03.2019 by Rod Harris	1	MTL
80-18-0500	S	SCBA bracket with strap - compt mount Customer specified mounting location to be on the tool board in the L4 compartment. Two (2) brackets on one side and the least bracket on the front corner of the other side (ahead of the extinguisher 80-17-0500).	3	MTL
80-18-0600		SCBA brkt w/strap - ZICO ULLH - crew cab mount For Officer's seat	1	MTL
80-19-0500		Large folding wheel chock - aluminum (ea) not mounted Shipped loose - not mounted. Customer will mount.	2	MTL
80-20-3000	S	Portable hand light with 12-VDC charger Streamlight Survivor Customer specified mounting location to be the upper portion of the L4 compartment beside the power bar 20-99-05AA. Confirmed by e-mail on 06.03.2019 by Rod Harris.	2	MTL
80-99-05AA	U	4" Storz x 2-1/2" female swivel and plug Shipped loose - not mounted. Customer will mount. SOPT #1 - Truck specific P/N 1501814 for the swivel adapter P/N 1500298 for the CP Plug	1	
80-99-10AA	U	Akron direct flange mount for an Apollo lift off monitor Install on monitor pipe 30-44-6520 SOPT #328 - Truck specific See pictures in O:/Metalfabphotos/Dysart ON M19-20468	1	
80-99-15AA	U	5" male NH to 6" NH female adapter (ea) Shipped loose - not mounted. Customer will mount. SOPT #3 - truck specific P/N 1501115	2	
80-99-20AA	U	2.5" x 1.5" reducing caps - chrome plated (ea) Installed on one of the 2-1/2" left side discharges by the fire deptment. Customer requested to be shipped loose - as confirmed by email on 06.03.2019 by Rod Harris SOPT #791 - truck specific P/N 1501280 for the reducing cap P/N 1500281 for the 1-1/2" CP Cap	1	